

NT2

NT3200 MACHINE2 Tool Matrix	Unnamed: 1	Unnamed: 2	Unnamed: 3	Unnamed: 4	Unnamed: 5	Unnamed: 6	Unnamed: 7	Unnamed: 8	Unnamed: 9
Assy. No.	Offset	Tool Type	COMMON TOOL	Tool use	Tool Dia. Mm	Tool Dia. Inches	Cnr. Radius	Preset X mm	Preset Z mm
1	1	static	YES	Rough turn			0.0315	-4.013	6.3064
1001 A90	240	static	YES	Rough turn			0.0315	-4.013	6.3064
1001 A180	239	static	YES	Rough turn			0.0315	-4.013	6.3064
1001 A-90	241	static	YES	Rough turn			0.0315	-4.013	6.3064
1002	2	DRIVEN	YES	DRILLING	26	1.0236		0	6.9817
3003	3	STATIC	YES	FINISH TURN			0.0079	-3.28	6.0395
3003 A120	229	STATIC	NO	EXTERNAL GROOVE			0.0157	-2.9072	6.1811
3003 A-120	237	STATIC	NO	EXT THREADING				-3.284	5.9336
1004	4	STATIC	YES	BORING			0.0079	-1.004	3.1439
1005	5	DRIVEN	YES	SPOT DRILLING	6	0.2362		0	5.394
1006	6	DRIVEN	YES	DRILLING	4.5	0.1771		0	5.433
1007	7	DRIVEN	YES	REAM	3.78	0.1875		0	3.7204
1008	8	DRIVEN	YES	DRILLING	3.6	0.1417		0	5.9055
1009	9	DRIVEN	YES	TAP				0	5.57
1010	10	STATIC	YES	EXTERNAL GROOVE			0.00787	-2.7569	4.9557
11	11, 28 & 56	DRIVEN	YES	ROUGH MILL	20	0.7874	0.0315	0	5.7086
1012	12	DRIVEN	YES	FINISH MILL	12	0.4724		0	4.0157
1013	13	STATIC	YES	SLOTING				-0.9476	5.1574

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14	14 & 72	STATIC	YES	EXTERNAL GROOVE				-2.349	5.669
1015	15	STATIC	YES	ROUGH TURN			0.0315	2.713	5.8477
1016	16	STATIC	YES	FINISH TURN			0.0157	2.7502	5.8905
1017	17	DRIVEN	YES	FINISH MILL	6	0.2362		0	5.4724
1018	18	DRIVEN	NO	CHAMFER MILL	10	0.3937			3.346
3019	19	STATIC	YES	EXTERNAL GROOVE			0.0039	-2.816	5.922
3019 A120	236	STATIC	NO	EXT THREADING				-3.2527	5.9402
3019 A-120	235	STATIC	YES	EXTERNAL GROOVE			0.00787	-2.9068	6.6929
1020	20	STATIC		INT THREADING				-0.3888	5.433
1021	21	DRIVEN	NO	CHAMFER MILL	6	0.2362		0	7.0078
1022	22	DRIVEN	YES	FINISH MILL	14	0.5512		0	6.4172
1023	23	DRIVEN	NO	DRILLING	2.4	0.0945		0	5.118
4024	24	STATIC		BORING				-2.437	6.181
4024 A90	230	STATIC		BORING			0.0078	-2.7934	5.2755
4024 A180	231	STATIC		BORING			0.0157	-2.7963	5.708
4024 A-90	232	STATIC		BORING			0.0078	-3.0633	4.881
1025	25	DRIVEN	NO	DRILLING	1	0.0393			5.1968
1026	26	DRIVEN	NO	BALL NOSE	6.5	0.2559			5.551
1027	27	DRIVEN	NO	BALL NOSE	1	0.0393	0.0196		4.33

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1028 SISTER TOOL T1011 & T1056	11, 28 & 56	DRIVEN	YES	ROUGH MILL	20	0.7874	0.0315	0	5.7072
1029	29	driven		FINISH MILL	5	0.1968	0		5.393
1030	30	DRIVEN	YES	FINISH MILL	20	0.7874	0.122	0	6.3779
1031	31	DRIVEN	YES	SPOT DRILLING	12	0.4724		0	6.2
1032	32	DRIVEN	YES	DRILLING	4.3	0.1693		0	6.2992
1033	33	DRIVEN	YES	DRILLING	9	0.3543		0	6.673
1034	34	DRIVEN	YES	DRILLING	6.35	0.25		0	6.22
1035	35	DRIVEN	YES	FINISH MILL	6	0.2362		0	5.905
1036	36	DRIVEN	YES	FINISH MILL	8	0.3149		0	3.9763
1037	37	STATIC	YES	BORING			0.0315	-0.7924	5.4673
1038	38	STATIC	YES	BORING			0.0157	-0.982	5.5156
1039	39	DRIVEN	YES	FINISH MILL	12	0.4724	0.02	0	4.4092
1040	40	DRIVEN	YES	DRILLING	13.5	0.5314		0	5.1181
1041	41	DRIVEN	YES	FINISH MILL	12	0.4724	0.03	0	4.4094
1042	42	STATIC	YES	BORING			0.0157	-0.983	5.7065
1043	43	STATIC	YES	INT THREADING				-1.201	5.62
1044	44	STATIC	YES	INT THREADING				-1.201	5.62
1045	45	DRIVEN	YES	DRILLING	1.6	0.0629		0	6.904
3046	46	STATIC	YES	KNURLING				-2.445	6.184
3046 A120	234	Static	NO	Ext Spherical Groove			0.0787	-2.9065	6.692

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3046 A-120	233	Static	NO	EXT THREADING				-3.2527	5.9402
1047	47	DRIVEN	YES	ROUGH MILL	10	0.3937		0	5.4724
1048	48	driven	NO	FINISH MILL	9.5	0.374	0.03		5.5118
1049	49	driven	NO	THREAD HOB	11.3	0.4449			3.937
1050	50	DRIVEN	YES	BALL NOSE	4.5	0.1771	0.0886		4.96
1051	51	driven	NO	Thread Undercut	10.5				5.669
1052	52	driven	NO	Drilling	7.1	0.2795			6.673
1053	53	driven	NO	Drilling	11	0.433			7.1259
1054	54	DRIVEN	YES	SPOT DRILLING	10	0.3937		0	3.5826
1055	55	DRIVEN	YES	FINISH MILL	3	0.1181		0	5.2755
1056 SISTER TOOL T1011 & T1028	11, 28 & 56	DRIVEN	YES	ROUGH MILL	20	0.7874	0.0315	0	5.7072
1057	57	DRIVEN	NO	REAM	6.5	0.2559			5.6
1058	58	DRIVEN	NO	FINISH MILL	5	0.1968			3.1
1059	59	driven	NO	Drilling	4.1	0.1614			5.5118
1060	60	DRIVEN	YES	DRILLING	2	0.078			5.1377
1061	61	STATIC	YES	BORING			0.0157	-0.3516	4.9629
1062	62	driven	YES	Drilling	4.5	0.178		0	5.748
1063	63	DRIVEN	NO	BALL NOSE	10	0.3937	0.1968	0	3.6614
1064	64	DRIVEN		FINISH MILL	8	0.3149	0.02	0	3.5826
1065	65	driven	NO	O ring milling cutter	11.43	0.45		0	5.8267

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1066	66	DRIVEN	YES	FINISH MILL	6	0.2362	0.06	0	6.8503
1067	67	DRIVEN	YES	FINISH MILL	6	0.2362	0.02	0	5.9055
1068	68	DRIVEN	YES	DRILLING	1.2	0.0472			5.236
3069	69	STATIC	YES	KNURLING					6.259
3069 A120	228	static	NO	EXT THREADING				-3.284	5.9336
3069 A-120	227	STATIC	NO	EXT THREADING				-3.284	5.9336
1070	70	DRIVEN	NO	ROUGH MILL	6	0.2362			5.9055
1071	71		NO	O/RING GROOVING	11.5	0.4527			5.904
1072 SISTER TOOL 1014	14 & 72	STATIC	YES	EXTERNAL GROOVE				-2.349	5.669
1073	73	STATIC	NO	BORING			0.0157	-0.6692	4.5669
1074	74	DRIVEN	NO	FINISH MILL	2	0.0787			5.2755
1075	75	DRIVEN	NO	FINISH MILL	4	0.1574			5.2755
1076	76	DRIVEN	YES	DRILLING	5				5.8661
1077	77	driven		FINISH MILL- BALLNOSE	2.38MM	0.0938			4.527
1078	78	DRIVEN	NO	SLOTING	16.5	0.6496	0.025		4.1732
1079	79	DRIVEN	NO	CORNER ROUNDING	6	0.2362	0.03	0	4.9212
1080	80		YES	PROBE					
1081	81	DRIVEN	NO	DRILLING	6	0.2362			5.9055
1082	82	DRIVEN	NO	FINISH MILL	15.9	0.625			5.942
1083	83	DRIVEN	NO	THREAD HOB	8.5	0.3346			5.5118

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1084	84	static	NO	INTERNAL GROOVE				-1.437	5.787
1085	85	DRIVEN	NO	DRILL/REAM ER	7.937	0.3125			7.874
1086	86	DRIVEN	NO	FINISH MILL/ ALLY	8	0.3149			5.6299
1087									
1088	88	DRIVEN	NO	THREAD HOB	6.6	0.2598			3.346
1089									
1090	90	driven	NO	Drilling	3.175	0.125		0	4
1091	91	driven	NO	FINISH MILL	12	0.4724			6.3779
1092	92	driven	NO	FINISH MILL	10	0.3937	0.0079		5.3937
1093	93	driven	NO	Drilling	3	0.118			5.984
1094	94	DRIVEN	NO	THREAD HOB	9	0.354			4.133
1095	95	DRIVEN	NO	O/RING GROOVING	20	0.7874			4.41
1096	96	DRIVEN	NO	THREAD HOB	3.81	0.15			
1097	97	DRIVEN	NO	TAP					5.039
1098	98	DRIVEN	YES	DRILLING	4.8	0.1889		0	6.477
1099	99	DRIVEN	NO	THREAD HOB	4.5	0.1771			5.118
1100	100	STATIC		INTERNAL GROOVE				-0.3858	3.031
1101	101	driven	NO	T-SLOT-MILL	27.7MM	1.09	0.008		5.944
1102	102	DRIVEN	NO	DRILLING	3.2	0.126			5.748

Unnamed: 10	Unnamed: 11	2026-01-09 10:49:35.040000	Unnamed: 13	Unnamed: 14	Unnamed: 15	Unnamed: 16	Unnamed: 17	Unnamed: 18	Unnamed: 19
Preset Y mm	Prot mm	L O R mm	TOOL WIDTH	MIN BORE	Tool Description	BREAK DETECT	Tool Width mm	Min bore mm	Backend
0					80 deg rough turning	NO			
0					80 deg rough turn	NO			
0					80 deg rough turn	NO			
0					80 deg rough turn	NO			
0		104			26mm U drill	NO			
0					35 deg finish turn	YES			
	34		2MM		2mm ext grooving tool	YES			
					12 UN ext threading tool				
0	80	56		25MM	80 deg boring bar	YES			
0	30	30			6mm 90deg spot Coated	YES			
0	60	47			4.5mm drill	YES			
0	37				.1875 carbide SS reamer	YES			
0	34	20			3.6mm drill	YES			
0	37				8-32unc tap	YES			
0		25	4MM		4mm ext grooving tool	YES			
0	40	40			20mm helimill	NO			

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0	40	31			SPECIAL FORM GEAR TEETH	YES			
0					SPLINE BROACH	YES			
0		35	4MM		4MM part off	YES			
0					55deg rough turn	YES			
0					35deg finish turn	YES			
0	19	7			6mm finish mill	YES			
	32	32			100 Deg Chamfer tool	YES			
0		6.4	1MM		1mm ext grooving tool				
					32 UN ext threading tool				
	47	13	4MM		4mm ext grooving tool				
	62	62		16MM	20UN int screwcut				
0	28	4.2			45 deg chamfer mill	YES			
0	38	26			14mm finish mill	YES			
0	25	20			2.4mm drill	YES			
	77	10			MINI BORING BAR				

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	49			10MM	THREAD UN DERCUTTING				
	60			13MM	80deg BORING BAR				
	39			13MM	55 DEG BORING BAR				
	32	24			1mm L/S DRILL	YES			
	25	6.5			6.5mm BALLNOSE	YES			
	10	2.5			2FL ALIBALL SLOT DRILL	YES			
0	40	40			20mm helimill	NO			
	30	20			5mm FINISH MILL	YES			
0	62	25			20mm dia - R.122 finish helimill	NO			
0	104				12mm dia spot/chamfer	YES			
0	60	51			4.3mm drill	YES			
0	65	45			9mm drill	YES			
0	58	39			0.25 dia drill	YES			
0	34				45 DEG CHFR form cutter	YES			
0	35				15 DEG CHFR form cutter	YES			

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0	63			22MM	80 deg boring bar	YES			
0	64			22MM	35deg boring bar	YES			
0	50	35	FLUTE LENGTH 12MM		12mm R.02 FLAT BOTTOM				
0	70	54			13.5mm U drill	YES			
0	50	35	FLUTE LENGTH 12MM		12mm R.03 finish mill	YES			
0	69	66		20MM	55deg boring bar	YES			
0	71	71		32MM	16UN int screwcut	YES			
0	71	71		32MM	16WHIT int screwcut	YES			
0	28	18			1.6MM DRILL	YES			
0	30				Knurl	NO			
		25	4MM		2MM rad Spherical grooving tool				
					24 UN ext threading tool				
0	39	22			10mm ripper rough mill	YES			
	40	25			9.5mm R.03 finish mill				
	45	25			18UN thread mill	YES			

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	26	4.5			4.5mm ballnose	YES			
	34	21		12MM	10.5mm dia undercutting tool				
	65	40			7.1mm drill	YES			
	76	51			11mm drill	YES			
0	34	4.2			10mm dia spot/chamfer	YES			
	18	12			3mm carbide end mill	YES			
0	40	40			20mm helimill	NO			
	65	30			6.5mm DIA 490 Reamer	YES			
	13	10			5MM 6 FLUTE				
	40	36			4.1mm drill	YES			
	30.5	14			2MM DRILL	YES			
	50	50		10MM	80 deg finish boring bar	YES			
0	48	37			4.5mm Flat bottom drill	YES			
0	36	14			10mm dia ballnose	YES			
0	25	19			8mm finish mill				
0	36	10.6			ext O ring form milling cutter				

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0	24	13			6mm dia R.06 finish mill	YES			
0	22	13			6mm dia R.020 finish mill	YES			
	33	17			1.2mm drill	YES			
0	36				Knurl	NO			
					18 UN ext threading tool				
					16 WHIT ext threading tool				
	22	13			6mm ROUGH MILLING	YES			
	50	50			O/RING GROOVING 120 DEG				
0		35	4MM		4MM part off	YES			
	40	40		15MM	55 deg finish boring bar	YES			
	18	8			2mm finish mill	YES			
	18	11			4mm finish mill	YES			
0	49	39			5.0MM DRILL	YES			
	18	7			3/32 DIA BALLNOSE				
	26	25			16.5mm slotting	YES			
0	25				.03 REFLEX	YES			

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					PROBE (MP700)				
	50				6.0MM DRILL				
	45	7.87			37DEG FORM CUTTER				
	40	22			THREAD MILL 20UN EXTERNAL				
		70		32MM	int groove2.5mm full rad	NO			
	100	80			.3125 DRILL/REAM				
	43	34			2FL Alimaster				
	30	30			3/8 24 UNF THREADMILL				
0	72	60			1/8 DRILL				
	50	26			12mm dia Finish Mill				
	37	22			10mm dia R.0079 finish mill	NO			
	36				3.0mm Drill				
	45	20			28UN thread mill				
	55	55			O/RING GROOVING 120 DEG				

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	20	9			THREAD MILL 32UN EXTERNAL				
	28	20			1/8-27-TAPE R TAP				
0	65	50			4.8MM DRILL	YES			
	30	13			THREAD MILL 28UN INTERNAL				
	28	25		6.2mm	MINI BORING BAR	YES			
	73		4MM		t-slot max tooth depth 6.5mm	NO			
	46	30			3.2mm DRILL	YES			
0	65	65		25MM	26WHIT INT S/CUT	NO			
0	66	63			21mm U drill	NO			
	17	9.5			.8mm Drill	YES			
	23	15			3mm R.02" cnr	YES			
	30	8			ITC SM-1262 82 deg ratchet form tool	YES			
	25	20			4-40 UNC TAP	YES			
	30	20			1.55mm DRILL	YES			
	12	6			.5MM DRILL	YES			
	20	10			3MM 90 DEG SPOT DRILL	YES			

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Collet/ Sleeve	Nut	Tool/Supplier	NP No	Tool holder/ Supplier	NP No2	Insert/Supplier	NP No3	Insert/Supplier	NP No4
				SL-PCLNR-3 2-12HP	NP18964	CNMG 120408-MM 1125 Sandvik	NP16981	Screw for Insert	TBA
				SL-PCLNR-3 2-12HP	NP18964	CNMG 120408-MM 1125 Sandvik	NP16981	Screw for Insert	TBA
				SL-PCLNR-3 2-12HP	NP18964	CNMG 120408-MM 1125 Sandvik	NP16981	Screw for Insert	TBA
				SL-PCLNR-3 2-12HP	NP18964	CNMG 120408-MM 1125 Sandvik	NP16981	Screw for Insert	TBA
						1. DS20-0306 -C-L5 1144 2. DS20-0306-P -L5W 2044 Sandvik	NP19973 NP19974		
				SVJBR2020 K16 Sandvik	NP17047	VBMT160402 -MF1025 Sandvik	NP16827	Screw for Insert	NP17536
				RF123E15-20 20B Sandvik	NP17591	C2I-E2N-020 0-0004-GF12 25 Sandvik	NP17271		
				266RFG-2020 -16	NP15712	266RG-16UN 01A120M 1135	NP15989		
						CCMT09T302 -MF1125 Sandvik	NP16956	Screw for Insert	NP17538

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		6.0MM 90DEG Coated Guhring	NP10463	<< NP17339 alternative					
		MPS1-0450-L 8C DP1021 MITSUBISHI	NP19147						
		Horley Drill Services RC-3/16	NP00236						
		860.1-0360-0 18A1-GM X1BM Sandvik	NP16922						
		Emuge	NP10023						
				C2R-CC5-RH 25CB Sandvik	NP20549	C21-H2N-040 0-0002-GF12 25 Sandvik	NP20550		
				R390-020C5- 11M095 Sandvik	NP16934	R390-11T308 M-MM2040 Sandvik	NP17264	Screw for Insert	NP11924
		SPECIAL ITC SM-1131	NP16904						
				SH11700251 10	NP16935	S117.0794.49 72 TF45 horn	NP16976	Holder Screw 4.09T15P	
		PART OFF		SANDVIK QD -NN1H36C21 A	NP18967	QD-NH-0400- 0002-CM 1145 Sandvik	NP18966		
				SDJCL2020K 11 Sandvik	NP16937	DCMT11T308 -MM 2025 Sandvik	NP16974	Screw for Insert	NP17536
				SVJBL 2020K16 Sandvik	NP16938	VBMT160404 -MF 2015 Sandvik	NP16973	Screw for Insert	NP17536

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		1K324-0600- XB 1730 Sandvik	NP20548						
		4071-10-100 ITC	NP17245						
				RF123T06-20 20BM Sandvik	NP16939	N123T3-0100 -0000-GS Sandvik	NP16972		
				266RFG-2020 -16	NP15712	266RG-16UN 01A320M 1135	NP15954		
				RF123H25-20 20BM Sandvik	NP11720	N123H2-0400 -0002-GF 1125 Sandvik	NP16978		
				R166.OKF-16 -1220-11B Sandvik	NP17503	R166.OL-11U N01-200 1020 Sandvik	NP17502		
		R215.84-0100 0-AC25G 1620 sandvik	NP17396						
		R216.34-1405 0-BC26P 1620 Sandvik	NP16924						
		WIDIA VDS40 2AD2400	NP18504						
				180 810110A87	NP17425	CXS-04T098- 05-2209R 1025 SANDVIK	NP17426		
132L-201205 0 NP17432				MB-E12-32-0 7R	NP17068	MB-07TE93-0 2-10R 1025	NP17434		
132L-201005 0-B NP17723				E10M-SCLCR 06R	NP17430	CCMT060204 -MF 1125	NP17334		

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132L-201005 0-B NP17723				A10K-SDUCR 07-ER	NP15707	DCMT 070202 MF 1125	NP17429		
		MWS0100X2 0DB	NP17419						
		VC2ESBR032 5	NP17418						
		AM2MBR005 0A040 Mitsubishi	NP15914						
				R390-020C5- 11M095 Sandvik	NP16934	R390-11T308 M-MM2040 Sandvik	NP17264	Screw for Insert	NP11924
		R216.32-0503 0-AC10P 1620 / SANDVIK	NP15956						
				R390-020A20 -11M Sandvik	NP11488	R390-11 T3 31M-PM 1030 Sandvik	NP16967		
				MM S-D-L130 -C16-TO8-C Iscar	NP20133	MM HCD120 - 090 - 2T08 - IC908	NP18524		
		MPS0430-L8 C VP15TF Mitsubishi	NP17212						
		R840-0900-5 0-A1A Sandvik	NP16925						
		R840-0635-5 0-A1A Sandvik	NP15981						

Unnamed: 20	Unnamed: 21	Unnamed: 22	Unnamed: 23	Unnamed: 24	Unnamed: 25	Unnamed: 26	Unnamed: 27	Unnamed: 28	Unnamed: 29
		mod' MSJHD D0600 Mitsubishi Carbide	NP17032						
		mod' MSJHD D0800 Mitsubishi Carbide	NP17033						
				A16R-SCLCR 09R Sandvik	NP16948	CCMT09T308 -MM 2025 Sandvik	NP17055	Screw for Insert	NP16044
				A16R-SVUBR 11-EB1 Sandvik	NP16945	VBMT110304 -MF 1025 Sandvik	NP16965		
		Mitsubishi Carbide	NP17600						
				880-D1350L2 0-04 Sandvik	NP16947	1. 880-01020 3H-C-LM 1044 2. 880-0 102W04H-P-L M 4044 Sandvik	NP16908 NP16909		
		VC-PSRB 12 X R0.3x36 (MMC457) Mitsubishi Carbide	NP16926						
				E16R-SDUC R07-ER Sandvik	NP16944	DCMT 070204-MM 1125 Sandvik	NP17225		
				266 RKF-25-16 SANDVIK	NP18981	266RL-16UN 01A160M 1135 SANDVIK	NP16960		

Unnamed: 20	Unnamed: 21	Unnamed: 22	Unnamed: 23	Unnamed: 24	Unnamed: 25	Unnamed: 26	Unnamed: 27	Unnamed: 28	Unnamed: 29
				266 RKF-25-16 SANDVIK	NP18981	266RL-16WH 01A160M 1125 SANDVIK	NP17830		
		M1120160 ITC	NP11359						
				K3R-2020-K1 6 KNURLTEC	NP08315	KW 168-10R KW 168-10L	NP08314 NP08313		
				RF123H25-20 20BM Sandvik	NP11720	N123H2-0400 -RO 4125 Sandvik	NP15950		
				266RFG-2020 -16	NP15712	266RG-16UN 01A240M 1135 SANDVIK	NP15953		
		10MM 49761 0004MT WIDIA	NP17373						
		MS4MCD100 0 Mitsubishi Carbide	NP19754						
			NP18036						
		VC2SBR0225 Mitsubishi Carbide	NP15969						
				327-12B21EC -06 Sandvik	NP16950	SPECIAL CO ROMILL327	NP16958		
		R840-0710-5 0-A1A Sandvik	NP16928						
		R840-1100-5 0-A1A Sandvik	NP16929						

Unnamed: 20	Unnamed: 21	Unnamed: 22	Unnamed: 23	Unnamed: 24	Unnamed: 25	Unnamed: 26	Unnamed: 27	Unnamed: 28	Unnamed: 29
				MM S-A-LO7 0-C10-TO6-C T/H Iscar	NP16860	MM HCD100 - 090 - 2T06 - IC908	NP17186		
		VC4JCD0300 Mitsubishi Carbide	NP10735						
				R390-020C5- 11M095 Sandvik	NP16934	R390-11T308 M-MM2040 Sandvik	NP17264	Screw for Insert	NP11924
		GUHRING	NP20608						
		VFSD0500 Mitsubishi Carbide	NP20132						
		MPS0410-L-D IN-C VP15TF Mitsubishi	NP17202						
			NP18269						
				E08K-SCLCR 06-R sandvik	NP17027	CCMT06 02 04 MF1125 Sandvik	NP17334	(WAS NP02998)	
		MPS0430-L8 C VP15TF Mitsubishi	NP19882						
		MS2SBR0500 E Mitsubishi Carbide	NP17211						
		MS4MRBD08 00R050 Mitsubishi carbide	NP17354						
		Mitsubishi Carbide	NP19750						

Unnamed: 20	Unnamed: 21	Unnamed: 22	Unnamed: 23	Unnamed: 24	Unnamed: 25	Unnamed: 26	Unnamed: 27	Unnamed: 28	Unnamed: 29
		MS4MRBD06 00R150 Mitsubishi Carbide	NP17515						
		MSMHDRB6 XR0.5 mitsubishi carbide	NP17105						
		MWS0120LB VP15TF mitsubishi carbide	NP17106						
					J49911	KPS-225-HC	NP19918		
				266RFG-2020 -16	NP15712	266RG-16UN 01A180M 1135	NP15988		
				R166.4FG-20 20-16 Sandvik	NP15712	R166.0G-16 WH01-16016 EXT R1020	NP15877		
		MSMHZD D0600 Mitsubishi Carbide	NP17168						
		MITSUBISHI	NP18904						
		PART OFF		SANDVIK QD -NN1H36C21 A	NP18967	QD-NH-0400- 0002-CM 1145 Sandvik	NP18966		
				A10K-SDUCR 07-ER Sandvik	NP17342	DCMT070204 -MF 1025 Sandvik	NP17225		
		MS4JCD0200 Mitsubishi Carbide	NP17221						

Unnamed: 20	Unnamed: 21	Unnamed: 22	Unnamed: 23	Unnamed: 24	Unnamed: 25	Unnamed: 26	Unnamed: 27	Unnamed: 28	Unnamed: 29
		MSMHDD040 0 Mitsubishi Carbide	NP17222						
		MPS0500L-DI N-C VP15TF mitsubishi	NP10514						
		widia 3/32 I4B 0094T037L	NP05931						
			NP16866	Iscar MM S-A -L070-C10-T0 6-C	NP16860	Iscar MM TS1 65-H30D-06 IC328	NP16866		
		SANDVIK	NP17139						
		RENISHAW							
		VAPDMSUSD 0600 / MITSUBISHI	NP11725						
		SPECIAL 37 DEG FORM CUTTER	NP19715						
		NP17384 TMRE10085 20UNF	NP17384						
		SANDVIK		RAG123H07- 25B Sandvik	NP17090	N123H2-0500 -RO2135	NP17091		
		MITSUBISHI	NP10531						
		MITSUBISHI	NP10289						
			NP18516						
		Drill/Reamer	NP14590						
		MS4MCD120 0E Mitsubishi Carbide	NP11498						

Unnamed: 20	Unnamed: 21	Unnamed: 22	Unnamed: 23	Unnamed: 24	Unnamed: 25	Unnamed: 26	Unnamed: 27	Unnamed: 28	Unnamed: 29
		MS4MRBD10 00R020 Mitsubishi	NP17179						
		MPS0300L-DI N-C VP15TF	NP17312						
		ITC / VARDEX		TMMC 20-6.0/ ITC - VARDEX	NP17954	6.0IUNTM-VT X / ITC VARDEX	NP17955		
		MITSUBISHI	NP10377						
		NP19145/ITC /S06059-E32 UN TM.	NP19145						
		MTG/HSS	NP19958						
		MPS0480-L8 C VP15TF MITSUBISHI	NP17255						
		ITC /TTM0202	NP19189						
						CSX-06r100- 6225R 1025 SANDVIK	NP19919		
		SANDVIK		327-16B60EC -14 SANDVIK	NP17058	327R14-28 40 002-GM1025	NP17059		
		MPS0320-LC 8C MITSUBISHI	NP17381						
				R166.4KF-20 F16 Sandvik	NP16946	R166.OL-16 WH01-260 1020 Sandvik	NP17057	SCREWS P17163	

Unnamed: 30	Unnamed: 31	Unnamed: 32	Unnamed: 33	Unnamed: 34	Unnamed: 35	Unnamed: 36	Unnamed: 37	Unnamed: 38	Unnamed: 39
Collet/Supplier	NP No5	Thro coolant Nut	NP No6	Sealing Disc	NP No7	Sleeve/Supplier	NP No8	Backend/Supplier	NP No9
Anvil for Insert	NP17847							C5-4-SL3209 3 125-AX	NP18963
Anvil for Insert	NP17847							C5-4-SL3209 3 125-AX	NP18963
Anvil for Insert	NP17847							C5-4-SL3209 3 125-AX	NP18963
Anvil for Insert	NP17847							C5-4-SL3209 3 125-AX	NP18963
								DS20-D2600 DM32-04 Sandvik	NP19971
Shim	NP17526	Shim Screw	NP17540					C5-ASHR3-3 6123-20 Sandvik	NP17006
								C5-SCLCR-1 3080-09 Sandvik	NP17008
393.14-32 060 Sandvik	NP16983							C5-391.14-32 057 Sandvik	NP17011
393.CGS-200 652 Sandvik	NP16984							C5-391.CGA- 20074A Sandvik	NP17010
393.14-32 050 Sandvik	NP17031							C5-391.14-32 057 Sandvik	NP17011
393.CG-12 06 40 Sandvik	NP17002							C5-391.CGA- 12 062 Sandvik	NP17012
393.14-32 050 Sandvik	NP17031							C5-391-14-32 057 Sandvik	NP17011
		Clamp Screw	NP20786						

Unnamed: 30	Unnamed: 31	Unnamed: 32	Unnamed: 33	Unnamed: 34	Unnamed: 35	Unnamed: 36	Unnamed: 37	Unnamed: 38	Unnamed: 39
								C5-391.CGA-12 062 Sandvik	NP17012
								C5-391.27-25 071 Sandvik	NP17013
								C5-APBR-311 10-21-HP Sandvik	NP18965
								MODIFIED C 5-ASHL-3009 8-20(NP1701 5)	J71492
Shim	NP17526	Shim Screw	NP17540					MODIFIED C 5-ASHL-3009 8-20(NP1701 5)	J71492
								C5-391.21-06 070A Sandvik	NP17025
ESX 32 10 - 9MM BUCK & HICKMAN	NP08810							C5-391-14-32 057 Sandvik	NP17011
								C5-ASHR3-3 6123-20 Sandvik	NP17006
						132L-2516-B SANDVIK	NP17004	C5-391-27-25 071 Sandvik	NP17013
393.14-16 0600 Sandvik	NP16988							C5-391.14-16 100 Sandvik	NP17019
								C5-391.21-14 075 Sandvik	NP17026
393.14-25 160 Sandvik	NP16987							C5-391.14-25 055 Sandvik	NP17018

Unnamed: 30	Unnamed: 31	Unnamed: 32	Unnamed: 33	Unnamed: 34	Unnamed: 35	Unnamed: 36	Unnamed: 37	Unnamed: 38	Unnamed: 39
								MODIFIED SANDVIK QUAD TOOL HOLDER	
								C5-391.14-16 100 Sandvik	NP17019
393.CGS 12 08 40 Sandvik	NP							C5-391.CGA- 12 062 Sandvik	NP17012
ER16 3-4 JET 2 ISCAR	NP16040							C5-391.14-16 100 Sandvik	NP17019
393.14-32060 Sandvik	NP17031							C5-391-14-32 057 Sandvik	NP17011
393.14-32 200 Sandvik	NP16986							C5-391.14-32 100 Sandvik	NP17017
393.14-25 160 Sandvik	NP16987							C5-391.14-25 055 Sandvik	NP17018
ER16 SEAL 5-6 JET2 ISCAR	NP16039							C5-391.14-16 100 Sandvik	NP17019
393.14-16 1000 Sandvik	NP16989	5533 051-01	NP16995	3916.01	NP17000			C5-391.14-16 100 Sandvik	NP17019
ER16 SEAL 7-8 JET2 ISCAR	NP16036							C5-391.14-16 100 Sandvik	NP17019
393.CG-12 06 40 Sandvik	NP17002							C5-391.CGA- 12 062 Sandvik	NP17012
393.CG-12 08 40 Sandvik	NP17003							C5-391.CGA- 12 062 Sandvik	NP17012

Unnamed: 30	Unnamed: 31	Unnamed: 32	Unnamed: 33	Unnamed: 34	Unnamed: 35	Unnamed: 36	Unnamed: 37	Unnamed: 38	Unnamed: 39
						132L-2516-B Sandvik	NP17004	C5-391.27-25 071 Sandvik	NP17013
		5513-020-20 NP11404				132L-2516-B Sandvik	NP17004	C5-391.27-25 071 Sandvik	NP17013
								C5-391.CGA- 12 062 Sandvik	NP17012
								C5-391.27-20 -060 Sandvik	NP17020
								C5-391.CGA- 12 062 Sandvik	NP17012
						132L-2516-B Sandvik	NP17004	C5-391-27-25 071 Sandvik	NP17013
ANVIL 5322 390-11	NP20145							C5-391-27-25 071 Sandvik	NP17013
ANVIL 5322 390-11	NP20145							C5-391-27-25 071 Sandvik	NP17013
393.14-16 0200 Sandvik	NP16991							C5-391.14-16 100 Sandvik	NP17019
								C5-ASHR3-3 6123-20 Sandvik	NP17006
393.14-16 1000 Sandvik	NP16989							C5-391.14-16 100 Sandvik	NP17019
393.14-16 1000 sandvik	NP16989							C5-391.14-16 100 Sandvik	NP17019
393.14-20 120 Sandvik	NP16992							C5-391.14-20 055 Sandvik	NP17021
393.14-16 0600 sandvik	NP16988							C5-391.14-16 100 Sandvik	NP17019

Unnamed: 30	Unnamed: 31	Unnamed: 32	Unnamed: 33	Unnamed: 34	Unnamed: 35	Unnamed: 36	Unnamed: 37	Unnamed: 38	Unnamed: 39
								C5-391.20-12 060 Sandvik	NP16953
393.14-16 0800 sandvik	NP16990	5533 051-01	NP16995	3916.008	NP16998			C5-391.14-16 100 Sandvik	NP17019
393.14-20 120 Sandvik	NP16992	5533 051-02	NP16996	3920.012	NP16999			C5-391.14-20 100 Sandvik	NP16954
ESX 32 10 - 9MM BUCK & HICKMAN	NP08810							C5-391-14-32 057 Sandvik	NP17011
393.CG-12 06 40 Sandvik	NP17002							C5-391.CGA- 12 062 sandvik	NP17012
393.CGS-200 652 Sandvik	NP16984							C5-391.CGA- 20074A Sandvik	NP17010
393.CG-12 06 40 Sandvik	NP17002							C5-391.CGA- 12 062 Sandvik	NP17012
ER16 5-6mm JET 2 Iscar	NP16039							C5-391.14-16 100 Sandvik	NP17019
								C5-391.14-16 100 Sandvik	NP17019
						132L-2508-B Sandvik	NP17005	C5-391.27-25 071 Sandvik	NP17013
393.14-16 0600 Sandvik	NP16988	5533 051-01	NP16995	3916.006	NP16997			C5-391.14-16 100 Sandvik	NP17019
ESX 32 10 - 9MM BUCK & HICKMAN	NP08810							C5-391-14-32 057 Sandvik	NP17011
393.CG-1208 40 Sandvik	NP17003							C5-391.CGA- 12 062 Sandvik	NP17012

Unnamed: 30	Unnamed: 31	Unnamed: 32	Unnamed: 33	Unnamed: 34	Unnamed: 35	Unnamed: 36	Unnamed: 37	Unnamed: 38	Unnamed: 39
								C5-391.CGA-12 062 sandvik	NP17012
393.14-16 0600 sandvik	NP16988							C5-391.14-16 100 Sandvik	NP17019
393.CGS-200 652 Sandvik	NP16984							C5-391.CGA-20074A Sandvik	NP17010
ESX 32 3 - 2.5MM BUCK & HICKMAN	NP08803							C5-391.14-16 100 Sandvik	NP17019
								C5-ASHR3-3 6123-20 Sandvik	NP17006
393.CGS-200 652 Sandvik	NP16984							C5-391.CGA-20074A Sandvik	NP17010
393.14-20 120 Sandvik	NP16992							C5-391.14-20 100 Sandvik	NP16954
								C5-APBR-311 10-21-HP Sandvik	NP18965
						132L-2510-B Sandvik	NP17340	C5-391.27-25 071 Sandvik	NP17013
393.CG-12 04 40 Sandvik	NP16993							C5-391.CGA-12 062 Sandvik	NP17012
393.CG-12 06 40 Sandvik	NP17002							C5-391.CGA-12 062 Sandvik	NP17012
								C5-391.14-16 100 Sandvik	NP17019

Unnamed: 30	Unnamed: 31	Unnamed: 32	Unnamed: 33	Unnamed: 34	Unnamed: 35	Unnamed: 36	Unnamed: 37	Unnamed: 38	Unnamed: 39
								C5-391.14-16 100 Sandvik	NP17019
393.CG-12 10 40	TBA							C5-S-12-075 Sandvik	
393.14-16 0600 Sandvik	NP16988							C5-391.14-16 100 Sandvik	NP17019
								C5-391.14-16 100 Sandvik	NP17019
ESX 32 16 - 15MM BUCK & HICKMAN	NP08816							C5-391.14-32 057 Sandvik	NP17011
393.14-16 1000 Sandvik	NP16989							C5-391.14-16 100 Sandvik	NP17019
								C5-391-27-25 071 Sandvik	NP17013
ER16 SEAL 7-8 JET2 ISCAR	NP16036							C5-391.14-16 100 Sandvik	NP17019
ER16 SEAL 7-8 JET2 ISCAR	NP16036							C5-391.14-16 100 Sandvik	NP17019
ER20 8-7mm								C5-391.14-20 055	NP17021
ER16 3-4 JET 2 ISCAR	NP16040							C5-391.14-16 100 Sandvik	NP17019
								C5-391.CGA- 12 062 sandvik	NP17012
393.14-16 1000 Sandvik	NP16989							C5-391.14-16 100 Sandvik	NP17019

Unnamed: 30	Unnamed: 31	Unnamed: 32	Unnamed: 33	Unnamed: 34	Unnamed: 35	Unnamed: 36	Unnamed: 37	Unnamed: 38	Unnamed: 39
	NP17002							C5-391.CGA-12 062 Sandvik	NP17012
								C5-391.27-20-060 Sandvik	NP17020
393.14-32 200 Sandvik	NP16986							C5-391.14-32 057 Sandvik	NP17011
393.14-16 1000 Sandvik	NP16989							C5-391.14-16 100 Sandvik	NP17019
ER16 SEAL 7-8 JET2 ISCAR	NP16036							C5-391.14-16 100 Sandvik	NP17019
ER16 SEAL 5-6	NP16039							C5-391.14-16 100 Sandvik	NP17019
ER16 SEAL 5-6	NP16039							C5-391.14-16 100 Sandvik	NP17019
								C5 CXS-49-06	NP17064
393.CG-20 16 52	NP17073							C5-391.CGA-20074A Sandvik	NP17010
ER16 SEAL 5-6	NP16039							C5-391.14-16 100 Sandvik	NP17019
								C5-391.27-20-060 Sandvik	NP17020
								880-D2100C5-03 Sandvik	NP17584
ER16 3-4 JET 2 ISCAR	NP16040							C5-391.14-16 100 Sandvik	NP17019
393.CG-12 06 40 Sandvik	NP17002							930-C5-S-12-075 Sandvik	NP19776

Unnamed: 40	Unnamed: 41	Unnamed: 42	Unnamed: 43	Unnamed: 44
EXTENSION HOLDER/Supplier	NP No10	Extension Holder		
				1.0
				240.0
				239.0
				241.0
C5-DM32-N-035	NP19972			2.0
				3.0
				229.0
				237.0
				4.0
C5-391.01-50 050 Sandvik	NP17009			5.0
				6.0
				7.0
C5-391.01-50 050 Sandvik	NP17009			8.0
C5-391.01-50 050 Sandvik	NP17009			9.0
C5-391.01-50 050 Sandvik	NP17009			10.0
C5-391.01-50 050 Sandvik	NP17009			11.0
				12.0
				13.0
				14.0
				15.0
				16.0
C5-391.01-50 050 Sandvik	NP17009			17.0
				18.0
				19.0
				236.0

Unnamed: 40	Unnamed: 41	Unnamed: 42	Unnamed: 43	Unnamed: 44
				235.0
				20.0
C5-391.01-50 050 Sandvik	NP17009			21.0
C5-391.01-50 050 Sandvik	NP17009			22.0
393.14-16 11 150 COLLET 393.14-11 0250		50MM		23.0
				24.0
				230.0
				231.0
				232.0
				25.0
C5-391.01-50 050 Sandvik	NP17009			26.0
				27.0
C5-391.01-50 050 Sandvik	NP17009			28.0
C5-391.01-50050 Sandvik	NP17009			29.0
				30.0
				31.0
				32.0
				33.0
				34.0
C5-391.01-50 050 Sandvik	NP17009			35.0
				36.0
				37.0
				38.0
				39.0
				40.0
				41.0

Unnamed: 40	Unnamed: 41	Unnamed: 42	Unnamed: 43	Unnamed: 44
				42.0
				43.0
				44.0
C5-391.01-50 050 Sandvik	NP17009			45.0
				46.0
		N123H2-0400-RO 4125 Sandvik		234.0
				233.0
				47.0
				48.0
				49.0
				50.0
C5-391.01-50 050 Sandvik	NP17009			51.0
				52.0
				53.0
				54.0
C5-391.01-50 050 Sandvik	NP17009			55.0
C5-391.01-50 050 Sandvik	NP17009			56.0
				57.0
				58.0
				59.0
				60.0
				61.0
				62.0
				63.0
				64.0
C5-391.01-50 050 Sandvik	NP17009			65.0

Unnamed: 40	Unnamed: 41	Unnamed: 42	Unnamed: 43	Unnamed: 44
C5-391.01-50 050 Sandvik	NP17009			66.0
C5-391.01-50 050 Sandvik	NP17009			67.0
				68.0
				69.0
				228.0
				227.0
C5-391.01-50 050 Sandvik	NP17009			70.0
				71.0
				72.0
				73.0
C5-391.01-50 050 Sandvik	NP17009			74.0
C5-391.01-50 050 Sandvik	NP17009			75.0
				76.0
				77.0
				78.0
				79.0
				80.0
				81.0
C5-391.01-50050 Sandvik	NP17009			82.0
				83.0
				84.0
				85.0
				86.0
				0.0
				88.0
				0.0

Unnamed: 40	Unnamed: 41	Unnamed: 42	Unnamed: 43	Unnamed: 44
				90.0
C5-391.01-50050 Sandvik	NP17009			91.0
				92.0
C5-391.01-50 050 Sandvik	NP17009			93.0
				94.0
				95.0
				96.0
				97.0
				98.0
				99.0
				100.0
				101.0
				102.0
				103.0
				104.0
				105.0
C5-391.01-50 050 Sandvik	NP17009			106.0
				107.0
				108.0
				109.0
				110.0
				111.0
				112.0
				113.0
				114.0
				0.0

